10/57355U PATENT Case No. 21500 PATORCO CONTROL 24 MAR 2006

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants:	Bryan, et al.	
Serial No. Filed: For: OPTIM	IIZED EXPRESSION OF HPV 45 L1 IN YEAST	Art Unit: Examiner:
ommissioner	for Potents	

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR 1.97

Sir:

- 1. In compliance with 37 C.F.R. 1.97, submitted on the attached form herewith is a list of patents, publications or other information which are requested to be made of record in this application. This Information Disclosure Statement is not an admission that any patent, publication or other information referred to herein is "prior art" for this invention. In accordance with 37 C.F.R. 1.97(h), the filing of this Information Disclosure Statement shall not be construed to be an admission that the information cited in the Statement is, or is considered to be, material to patentability as defined in 37 C.F.R. 1.56(b).
- 2. In accordance with 37 C.F.R. 1.97(g), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made.
- 3. Applicants respectfully request that the Examiner initial the attached form after reviewing the pertinence of each reference.
- 4. Pursuant to 37 C.F.R. 1.98 (a)(2)(ii), copies of each cited U.S. patent and each U.S. patent application publication are not enclosed herewith.

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INFORMATION DISCLOSURE STATEMENT

5. Pursuant to 37 C.F.R. 1.98(d), copies of references listed on the attached form that were submitted to or cited by the Office in a related application upon which the instant application relies for an earlier filing date under 35 U.S.C. 120 are not enclosed. Related application(s) in which references were submitted to or cited by the Office are as follows:

	RELATED APPLICATION			
U. S. SERIAL NUMBER	FILING DATE	MERCK CASE		
		-		
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If this is inconvenient, additional copies will be submitted upon request. 6. In accordance with 37 C.F.R. 1.97, (check one) the attached information is filed within three months of the filing date of the captioned case. the attached information is filed more than three months after the filing date but prior to the mailing of a first Office Action on the merits. the attached information is filed before the mailing of a first Office action after the filing of a request for continued examination under §1.114. the attached information is being filed more than three months after the filing date and after the mailing of a first Office Action on the merits, but before the mailing date of a Final Action, Notice of Allowance, or an action that otherwise closes prosecution in the application. The enclosed authorization is therefore given to charge Deposit Account No. 13-2755 for the fee required under 37 C.F.R. 1.17(p). each item of information contained in this Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Statement. each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart application and this communication was not received by any individual designated in §1.56(c) more than thirty days prior to the filing of the information disclosure statement. no item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, was known to any individual designated under 37 C.F.R. 1.56(c) more than three months prior to the filing of this Statement.

Respectfully submitted,

By: Alysia A. Finnegan

Attorney ____ For Applicant(s)

Reg. No. 48,878

MERCK & CO., INC. Patent Dept., RY60-30

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Date: March 24, 2006

· ·	Substitute for form 1449A/PTO			COMPLETE IF KNOWN			
	INFORMATION	DIS	CLOSURE	Application Number	10/573350		
				Filing Date AP9	REC'OFCHPTO 24 MAR 2006		
STATEMENT BY APPLICANT			FLICANI	First Named Inventor	Bryan, et al.		
(use as many sheets as necessary)				Group Art Unit			
				Examiner Name			
Shee	1	of	2	Attorney Docket Number	21500		

	U.S. PATENT DOCUMENTS							
Examiner Initials*	Cite No.	U.S. Patent Docum		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY			
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	FOREIGN PATENT DOCUMENTS							
n			T I I I I I I I I I I I I I I I I I I I		Name of Development Application	Date of Publication of		
Examiner Initials*	Examiner Cite Initials* No.				Name of Patentee or Applicant of Cited Document	Cited Document MM-DD-YYYY		
		PCT	WO 96/15247		Merck & Co., Inc.	05/23/1996		
		PCT	WO 98/34640		Merck & Co., Inc.	08/13/1998		
		PCT	WO 99/02694		The University of Queensland	01/21/1999		
		PCT	WO 01/14416 A2		Merck & Co., Inc.	03/01/2001		
		PCT	WO 01/41799 A1		Epimune, Inc.	06/14/2001		
		PCT	WO 02/08435 A1	_	Glaxo Group Limited	01/31/2002		
		PCT	WO 03/077942 A2		GlaxoSmithKline Biologicals SA	09/25/2003		
		PCT	WO 2004/084831 A2		Merck & Co., Inc.	10/07/2004		

Examiner Signature	Date Considered	

^{*}Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Substitute for form 1449B/PTO INFORMATION DISCLOSURE SCEA THE MENTERNY APPLICANTE				COMPLETE IF KNOWN			
				Application Number	10/573330		
				Filing Date AP9	Rec'd PCT/PTO 24 MAR 2006		
STATEMENT BY APPLICANT			PLICANI	First Named Inventor	Bryan, et al.		
(use as many sheets as necessary)				Group Art Unit			
				Examiner Name			
Sheet	2	of	2	Attorney Docket Number	21500		

		NON PATENT LITERATURE DOCUMENTS
Examiner Initials*	Cite No.	Include name of the author, title, date, page(s), volume-issue number(s) and place of publication.
-		Bosch, et al., "Prevalence of Human Papillomavirus in Cervical Cancer: a Worldwide Perspective", J. Nat. Cancer Inst., Vol. 87, No. 11, June 7, 1995, pp. 796-802.
		Breitburd, et al., "Immunization with Viruslike Particles from Cottontail Rabbit Papillomavirus (CRPV) Can Protect Against Experimental CRPV Infection", J. of Virol., Vol. 69, No. 6, June 1995, pp. 3959-3963.
		Delius, et al., "Primer-Directed Sequencing of Human Papillomavirus Types", Curr. Topics in Microbiology. and Immunology, Vol. 186, 1994, pp. 13-31.
		GenBank Accession No. Q9Y4Y5
		Kortula, et al., "Evaluation of Foreign Gene Codon Optimization in Yeast: Expression of a Mouse IG Kappa Chain", Bio/Technology, Vol. 9, December 1991, pp. 1386-1389.
		Liu, et al., "Polynucleotide viral vaccines: codon optimization and ubiquitin conjugation enhances prophylactic and therapeutic efficacy", Vaccine, Vol. 20, 2002, pp. 862-869.
		McMurray, et al., "Biology of human papillomaviruses", International Journal of Experimental Pathology, Vol. 82, 2001, pp. 15-33.
		Neeper, et al., "Expression of the major capsid protein of human papillomavirus type 11 in Saccharomyces cerevisae", Gene, Vol. 180, 1996, pp. 1-6.
		Schiffman, et al., "Epidemiologic Evidence Showing That Human Papillomavirus Infection Causes Most Cervical Intraepithelial Neoplasia", Journal of National Cancer Institute, Vol. 85, No. 12, June 16, 1993, pp. 958-964.
		Schiller, et al., "Developing HPV virus-like particle vaccines to prevent cervical cancer: a progress report", Journal of Clinical Virology, Vol. 19, 2000, pp. 67-74.
		Schiller, et al., "Papillomavirus-Like Partcles: Basic and Applied Studies", Papillomavirus Reviews: Current Research on Papillomaviruses, ed. Leeds, UK: Leeds Medical Information, 1996, pp. 101-112.
		Sharp, et al., "Synonymous Codon Usage in Saccharomyces cerevisiae", Yeast, Vol. 7, 1991, pp. 657-678.
		Suzich, et al., "Systemic immunization with papillomavirus L1 protein completely prevents the development of viral mucosal papillomavirus", PNAS, Vol. 92, December 1995, pp. 11553-11557.
		Tobery, et al., "Effect of vaccine delivery system on the induction of HPV 16 L1-specific humoral and cell-mediated immune responses in immunized rhesus macaques", Vaccine, Vol. 21, 2003, pp. 1539-1547.
		Zhou, et al., "Papillomavirus Capsid Protein Expression Level Depends on the Match between Codon Usage and tRNA Availability", J. of Virol., Vol. 73, No. 6, June 1999, pp. 4972-4982.

Examiner Signature	Date Considered	

^{*}Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.